



**pronic**  
Tapping solutions

## SERVO DRIVEN TAPPING UNIT EMRFV



**The motor is mounted solid for a greater reliability.  
An elevating head for a better performance.**

The tapping unit EMRFV is an evolution of the tapping unit EMRV (electromechanical tapping device with a vertical motor). In our new development, the motor and its gearbox are mounted solid on the lower shoe of the tool, while the single or multi-tap head is installed on a mobile support. The tapping head follows the vertical movement of the strip. A grooved shaft transmits the rotary movement from the motor to the mobile tapping head.

The tapping unit EMRFV is ideally adapted to applications of progressive dies with strip lift, low shut height and/or high press stroke. It can also be used for fine blanking applications.

Indeed, the fact that the head follows the strip (or the solution) in its vertical movement enables the tapping process just after the material feeding. This technique allows to operate at higher press speeds while maintaining an excellent lifetime of the taps. The servo-motor is mounted on the lower shoe of the tool preventing shock and vibrations which cause damage to the motor.

The tapping unit EMRFV is the most reliable model for applications with strip lift.

The PRCv 3000 controller provides a user-friendly software through via a color touch screen. With its advanced programming features and reliability, PRONIC PRC v3000 becomes a major asset for an optimized production process (See our PRC v3000 product brochure).

### TECHNICAL FEATURES OF THE MOTO-REDUCER

- Motor's Connection adapted to the industrial and stamping circles (HARTING outlet).
- Motor mounted solid to avoid any deterioration due to the vibrations of the mobile support.
- Small overall dimensions of the unit (tools with short press stroke).
- This unit requires little maintenance.

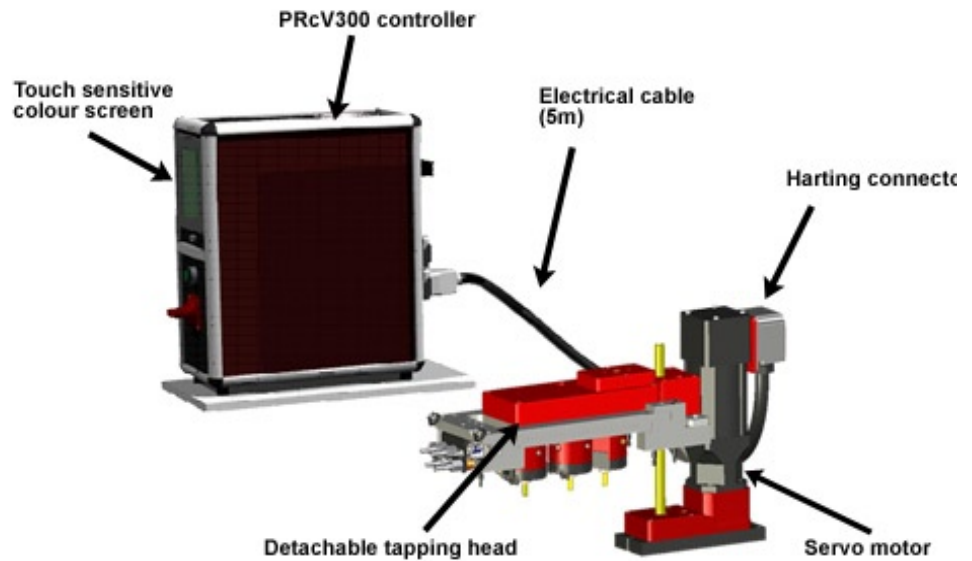
## WHY SHOULD YOU USE PRONIC SERVO DRIVEN TAPPING UNIT ?

### Advantages of EMRFV tapping device:

- Its flexibility helps to modify easily the tapping parameters while enabling the user to optimize the cycle of tapping.
- PRC v3000 controller supervises each tapping cycle and its synchronisation with the press cycle. A screen displays defects in real time, with in-line assistance for solving.
- The various parts of the tapping unit (PRC v3000 controller, motorization or detachable head) are reusable:

. for other applications: the controller can, for example, drive another tapping unit.

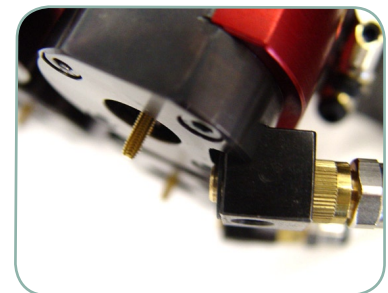
. under other conditions: the head can thus be re-used with a mechanical transmission (subject to validation by a PRONIC technical adviser).



## BUILT-IN TAP LUBRICATION

Device with integrated lubrication nozzles.

Tap life is one of our chief concerns when recommending the range of speed in which the unit should be operating. With that in mind, we strongly recommend our Micro-Lubrication System. The lubrication system is designed to minimize oil consumption while maintaining a good tap life by combining oil and air mixtures that lubricate the tap in sync. with the press stroke. This will save you costs on future lubrication purchases and provides a good working environment by reducing wasted oil.



The nozzles for micro-lubrication and cooling of the taps are built onto the tapping head and fitted with quick-disconnect unions for immediate connection/disconnection of the lubrication system. Depending on tap size, we will recommend from 1 to 4 nozzles per tap.

Empfohlene Düsenanzahl / Gewindeformer*				
Materail	Copper / Aluminium / Brass	Soft steel	High tensile steel	Stainless steel
Up to M6	1	1	1	1
M8 and M10	1	1	2	2
M12 and more	1	2	3 or 4	4

\* Depending on your parameters (by example: tapping height), our specialists may adapt the number of nozzles needed